

**IN THE SPECIFICATION**

Please replace the paragraph on page 12, lines 9-25, under the heading "Additional Report Information" as follows:

**Additional Report Information**

In one embodiment, measurements of a gem item (e.g., a silhouette image of a gem item by a Sarin machine) made by a metrological means that measures the proportions of the gem item is stored as part of a report for the gem item. In one embodiment, the report for the gem item also includes grading data (e.g., cut, color, clarity, carat weight, etc.) stored as part of a certificate for the gem item. Such grading data including, but not limited to, the shape and cutting style of the gem item; measurements of the gem item; weight and proportions of the gem item, including minimum and maximum diameter; the total depth of the gem item from the table, or top, of the gem item to the culet, or point; average size of the table facet in relation to the average diameter for round shapes, or the width of the table in relation to the width of the gem item for fancy shapes; thickness of the girdle, relative to the size of the gem item and condition, e.g., polished or faceted, if applicable; size of the culet facet relative to the size of the gem item; finish grade representing the quality of the surface condition (polish) and size, shape and placement of the facets, including the symmetry, i.e., evenness of the outline; fluorescence, or the strength and color of a gem item when viewed under long wave ultraviolet light such as is present in daylight or other wavelengths in the electromagnetic spectrum (e.g., visible, infrared, radio, gamma, X-ray, etc. and/or various spectral graph representations, for example, absorption and/or transmittance as explained below).